

Form PTO - 1449

U.S. DEPT. OF COMMERCE
PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(Use several sheets if necessary)

A. DKT. NO.

68-00A

SERIAL NO.

09/929,831

APPLICANT:

Eudes, et al.

FILING DATE

August 14, 2001

GROUP

1638

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
JH	5,874,265	02/23/99	Adams, et al.	435	172.3	05/23/95
JH	5,610,042	03/11/97	Chang, et al.	435	172.3	11/01/93
JH	4,666,844	05/19/87	Cheng, David S.K.	435	240	09/07/84
JH	5,641,664	06/24/97	D'Halluin, Kathleen	435	172.3	11/21/91
JH	5,712,135	01/27/98	D'Halluin, Kathleen	435	172.3	06/07/95
JH	5,792,936	08/11/98	Dudits, et al.	800	230	06/05/95
JH	5,409,828	04/25/95	Frenkel, et al.	435	240.4	06/14/90
JH	5,631,152	05/20/97	Fry, et al.	435	172.3	10/26/94
JH	5,322,789	06/21/94	Genovesi, et al.	435	240.5	12/21/92
JH	5,445,961	08/29/95	Genovesi, et al.	435	240.5	12/18/92
JH	5,589,617	12/31/96	Nehra, et al.	800	205	08/03/94
JH	6,071,746	06/06/00	Seabrook, et al.	435	429	02/02/98
JH	5,981,842	11/09/99	Wu, et al.	800	298	10/11/96

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
JH	WO 99/04618	04/02/99	PCT	A01H	1/04		
JH	WO 00/16610	30/03/00	PCT	A01H	4/00		
JH	EP0720 425 B1		European	A01H	4/00		
JH	1,292,959	10/12/91	Canada	C12N	5/14		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

JH	Ahokas, H. (1989) Transfection of germinating barley seed electrophoretically with exogenous DNA. Theor. Appl. Genet. 77: 469-472.
JH	Ahloowalia, B.S. (1982) Plant regeneration from callus culture in wheat. Crop Sci. 22: 405-410.
JH	Alber, T. and Kawasaki, G. (1982) Nucleotide sequence of the triose phosphate isomerase gene of Saccharomyces cerevisiae. Journal of Molecular and Applied Genetics 1: 419-434.
JH	Antonelli, N.M. and Stadler, J. (1990) Genomic DNA can be used with cationic methods for highly efficient transformation of maize protoplasts. Theor. Appl. Genet. 80: 395-401.
JH	Arteca, R. (1996) Plant Growth Substances: Principles and Applications. New York. Chapman & Hall.
EXAMINER	<i>June 12</i>
Date Considered	5/6/04

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JH	Barcelo P., Hagel C., Becker, D., Martin, A. and Lörz H. (1994) Transgenic cereal (tritordeum) plants obtained at high efficiency by microprojectile bombardment of inflorescence tissue. Plant Journal 5: 583-592.
JH	Barro, F., Cannell, M.E., Lazzeri, P.A. and Barcelo, P. (1998) The influence of auxins on transformation of wheat and tritordeum and analysis of transgene integration patterns in transformants. Theor. Appl. Genet. 97: 684-695.
JH	Becker, D., Brettschneider, R. and Lörz, H. (1994) Fertile transgenic wheat from microprojectile bombardment of scutellar tissue. Plant Journal 5:299-307.
JH	Bevan, M.W., Flavell, R.B. and Chilton, M.D. (1983) A chimaeric antibiotic resistance gene as a selectable marker for plant cell transformation. Nature 304: 184-187.
JH	Bhaskaran, S. and Smith, R.H. (1990) Regeneration in cereal tissue culture: a review. Crop Sci. 30(6):1328-1337.
JH	Bregitzer, P., Dahleen, L.S. and Campbell, R.D. (1998) Enhancement of plant regeneration from embryogenic callus of commercial barley cultivars. Plant Cell Rep. 17: 941-945.
JH	Burkhardt, P.K., Beyer, P., Wunn, J., Klotz, A., Armstrong, G.A., Schledz, M., Lintig, J. and Potrykus, I. (1997) Transgenic rice (<i>Oryza sativa</i>) endosperm expressing daffodil (<i>Narcissus pseudonarcissus</i>) phytoene synthase accumulates phytoene, a key intermediate of provitamin A biosynthesis. Plant J. 11: 1071-1078.
JH	Carman, J.G. (1990) Embryogenic cells in plant tissue cultures: occurrence and behavior. In Vitro Cell Dev. Biol.:26: 746-753.
JH	Cho, M.J., Jiang, W.I. and Lemaux, P. (1998) Transformation of recalcitrant barley cultivars through improvement of regenerability and decreased albinism. Plant Science 138: 229-244.
JH	Creissen, G., Smith, C., Francis, R., Reynolds, H. and Mullineaux, P. (1990) <i>Agrobacterium</i> —and microprojectile—mediated viral DNA into barley microspore derived cultures. Plant Cell Rep. 8: 680-683.
JH	De La Fuente, J.M., Ramirez-Rodriguez, V., Cabrera-Ponce, J.L. and Herrera-Estrella, L. (1997) Aluminum tolerance in transgenic plants by alteration of citrate synthesis. Science 276: 1566-1568.
JH	Depicker, A., Strachel, S., Dhaese, P., Zambryski, P. and Goodman, H.M. (1982) Nopaline synthase: transcript mapping and DNA sequence <i>Agrobacterium tumefaciens</i> . J. Mol. Appl. Genet. 1(6): 561-573.
EXAMINER <i>James H. H.</i>	
Date Considered <i>5/6/04</i>	

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						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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JH	Elliott, M.C., Moloney, M.M., Scott, N.W. and Slater, A. (1996) A way forward for tobacco - molecular farming. <i>Biotech. and Biotechnol. Equip.</i> 4: 59-66. (Abstract only)
JH	Fischer, R., Drossard, J., Commandeur, U., Schillberg, S. and Emans, N. (1999) Towards molecular farming in the future: moving from diagnostic protein and antibody production in microbes to plants. <i>Biotech. and Appl. Biochem.</i> 30(2): 101-108.
JH	Fromm, M.E., Taylor, L.P. and Walbot, V. (1986) Stable transformation of maize after gene transfer by electroporation. <i>Nature</i> 319: 791-793.
JH	Gamborg, O.L., Miller, R.A. and Ojima, K. (1968) Nutrient requirements of suspension cultures of soybean root cells. <i>Exp. Cell Res.</i> 50:151-158.
JH	George, E.F., Puttock, D.J.M. and George, H.L. (1987) <i>Plant Culture Media Vol. 1, Formulations and Uses</i> . Exegetics Limited.
JH	Gielen, J., De Bauckeleer, M., Seurinck, J., Deboeck, F. and De Greve, H. (1984) The complete nucleotide sequence of the TL-DNA of the <i>Agrobacterium tumefaciens</i> plasmid pTiAch5. <i>EMBO J. Eur. Mol. Biol. Organ.</i> 3(4): 835-846.
JH	Green C.E. (1982) Somatic embryogenesis and plant regeneration from the friable callus of <i>Zea mays</i> . In <i>Plant Tissue Culture 1982: Proceedings, Fifth International Congress of Plant Tissue and Cell Culture</i> . Fujiwara, A. Ed. Tokyo and Lake Yamanake, Japan, July 11-16. pp. 107-108.
JH	Gruber, Margaret Y. and Crosby, William L. (1993) Vectors for Plant Transformation. <i>Methods in Plant Molecular Biology and Biotechnology</i> . Boca Raton, CRC Press. Chapter 7:89-119.
JH	Hayashi, H., Alia, Mustardy, L., Deshniun, P., Ida, M. and Murata, N. (1997) Transformation of <i>Arabidopsis thaliana</i> with the codA gene for choline oxidase; accumulation of glycinebetaine and enhanced tolerance to salt and cold stress. <i>Plant J.</i> 12: 133-142.
JH	Hemming, D. (1995) Molecular farming: using transgenic plants to produce novel proteins and other chemicals. <i>AgBiotech News and Info.</i> 7(1): 19-29.
JH	Jacobsen, J.V. and Close, T.J. (1991) Control of transient expression of chimaeric genes by gibberellic acid and abscisic acid in protoplasts prepared from mature barley aleurone layers. <i>Plant Mol. Biol.</i> 16: 713-724.
JH	Jähne, A., Becker, D. and Lorz, H. (1995) Genetic engineering of cereal crop plants: a review. <i>Euphytica</i> 85: 35-44.
EXAMINER <i>Jane H.</i>	
Date Considered <i>5/6/04</i>	

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JH	Jähne, A., Becker, D., Brettschneider, R., and Lörz, H. (1994) Regeneration of transgenic, microspore-derived, fertile barley. Theor. Appl. Genet. 89: 525-533.	
JH	Kaneko, T., Kuroda, H., Hirota, N., Kishinami, I., Kimura, N. and Itô, K. (1991) Two transformation systems of barley—electroporation and laser perforation. Barley Genetics VI:231-233	
JH	Knudsen, S. and Müller, M. (1991) Transformation of the developing barley endosperm by particle bombardment. Planta. 185: 330-336.	
JH	Lee, B.T., Murdoch, K., Topping, J., Jones, M.G.K. and Kreis, M. (1991) Transient expression of foreign genes introduced into barley endosperm protoplasts by PEG-mediated transfer or into endosperm tissue by microprojectile bombardment. Plant. Sci. 78: 237-246.	
JH	Lee, J.H., Montagu, M.V. and Verbruggen, N. (1999) A highly conserved kinase in an essential component for stress tolerance in yeast and plant cells. Proc. Natl. Acad. Sci. USA 96: 5873-5877.	
JH	Lorz, H., Brettschneider, R., Hartke, S., Gill, R., Kranz, E., Langridge, P., Stolarz, A. and Lazzeri, P. (1990) In vitro manipulation of barley and other cereals. Stadler Genet. Symp. New York, N.Y., Plenum Press (19th), pp. 185-201.	
JH	Maheswaran, G. and Williams, E.G. (1984) Direct somatic embryoid formation on immature embryos of <i>Trifolium repens</i> , <i>T. pratense</i> and <i>Medicago sativa</i> , and rapid clonal propagation of <i>T. repens</i> . Ann. Bot. 54: 201-211.	
JH	Maheswaran, G. and Williams, E.G. (1985) Origin and development of somatic embryoids formed directly on immature embryos of <i>Trifolium repens</i> in vitro. Ann. Bot. 56: 619-630.	
JH	Maheshwari, N., Riyalakshmi, K., Baweja, K., Dhir, S.K., Chowdhry, C.N. and Maheshwari, S.C. (1995) In vitro culture of wheat and genetic transformation - retrospect and prospect. Crit. Rev. in Plant Sci. 14(2): 149-178.	
JH	Mannonen, L., Kauppinen, V. and Enari, T.M. (1994) Recent developments in the genetic engineering of barley. Critical Reviews in Biotechnology 14: 287-310.	
JH	Mannonen, L., Ritala, A., Salmenkallio, M., Aspegren, K., Teeri, T.H., and Kauppinen, V. (1991) Optimization of Gene Transfer in Barley by Microprojectile Bombardment. Barley Genetics VI: 237-239.	
JH	McElroy, D., Zhang, W., Cao, J. and Wu, R. (1990) Isolation of an efficient actin promoter for use in rice transformation. Plant Cell 2: 163-171.	
EXAMINER		Date Considered
JH		5/6/04

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						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)	
JH	Merkle, S.A., Parrott, W.A. and Flinn, B.S. (1995) Morphogenic aspects of somatic embryogenesis. In <i>in vitro</i> Embryogenesis in Plants. Thorpe, T.A. Ed. Kluwer Academic Publishers. Dordrecht. pp. 155-201.
JH	Murashige, T. and Skoog, F. (1962) A revised medium for rapid growth and bioassays with tobacco tissue cultures. <i>Physiol. Plant.</i> 15: 473-497.
JH	Nehra, N.S., Chibbar, R.N., Leung, N., Caswell, K., Mallard, C., Steinhauer, L., Baga, M. and Kartha, K.K. (1994) Self-fertile transgenic wheat plants regenerated from isolated scutellar tissues following microprojectile bombardment with two distinct gene constructs. <i>Plant J.</i> 5: 285-297.
JH	Paszkowski, J., Shillito, R.D., Saul, M.W., Mandak, V., Hohn, B. and Potrykus, I. (1984) Direct gene transfer to plants. <i>EMBO J.</i> 3: 2717-2722.
JH	Pen, J., Sijmons, P.C., Van Ooijen, A.J.J. and Hoekema, A. (1993) Protein production in transgenic crops: analysis of plant molecular farming in transgenic plant fundamentals and applications. M. Dekker. Ed. New York. pp. 239-251.
JH	Potrykus, I. (1990) Gene transfer to cereals: an assessment. <i>Bio/Technol.</i> 8(6): 535-542.
JH	Ritala, A., Aspegren, K., Kurtén, U., Salmekallio-Marttila, M., Mannonen, L., Hannus, R., Kauppinen, V., Teeri, T. H., and Enari, T.-M. (1994) Fertile transgenic barley by particle bombardment of immature embryos. <i>Plant Molecular Biology</i> 24: 317-325.
JH	Rogers, S.W. and Rogers, J.C. (1992) The importance of DNA methylation for stability of foreign DNA in barley. <i>Plant Mol. Biol.</i> 18:945-961.
JH	Schaeffer, G.W., Lazar, M.D. and Baenziger, P.S. (1984) Chapter 5 - Wheat. In <i>Handbook of Plant Cell Culture. Vol. 2. Crop Species.</i> Sharp, W.R., Evans, D.A., Ammirato, P.V. and Yamada, Y. Eds. Collier Macmillan Publishers. London, UK. pp. 108-136.
JH	Sheveleva, E., Chmara, W., Bohnert, H.J. and Jensen, R.G. (1997) Increased salt and drought tolerance by D-ononitol production in transgenic <i>Nicotiana tabacum</i> L. <i>Plant Physiol.</i> 115: 1211-1219
JH	Spoerlein, B., Mayer, A., Dahlfeld, G. and Koop, H.U. (1991) A microassay for quantitative determination of beta-glucuronidase reporter gene activities in individually selected single higher plant cells. <i>Plant Sci.</i> 78(1): 73-80.
EXAMINER <i>June 10</i>	
Date Considered <i>5/6/01</i>	

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1661

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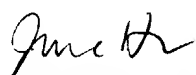
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FOREIGN PATENT DOCUMENTS

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						Yes	No

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JH	Mariani, T.S., Miyake, H. and Takeoka, Y. (1998) Changes in surface structure during direct somatic embryogenesis in rice scutellum observed by scanning electron microscopy. Plant Production Science 1:223-231. [abstract only]		
EXAMINER		Date Considered	5/6/04

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.